



Missouri S&T Magazine, June 1963

Miner Alumni Association

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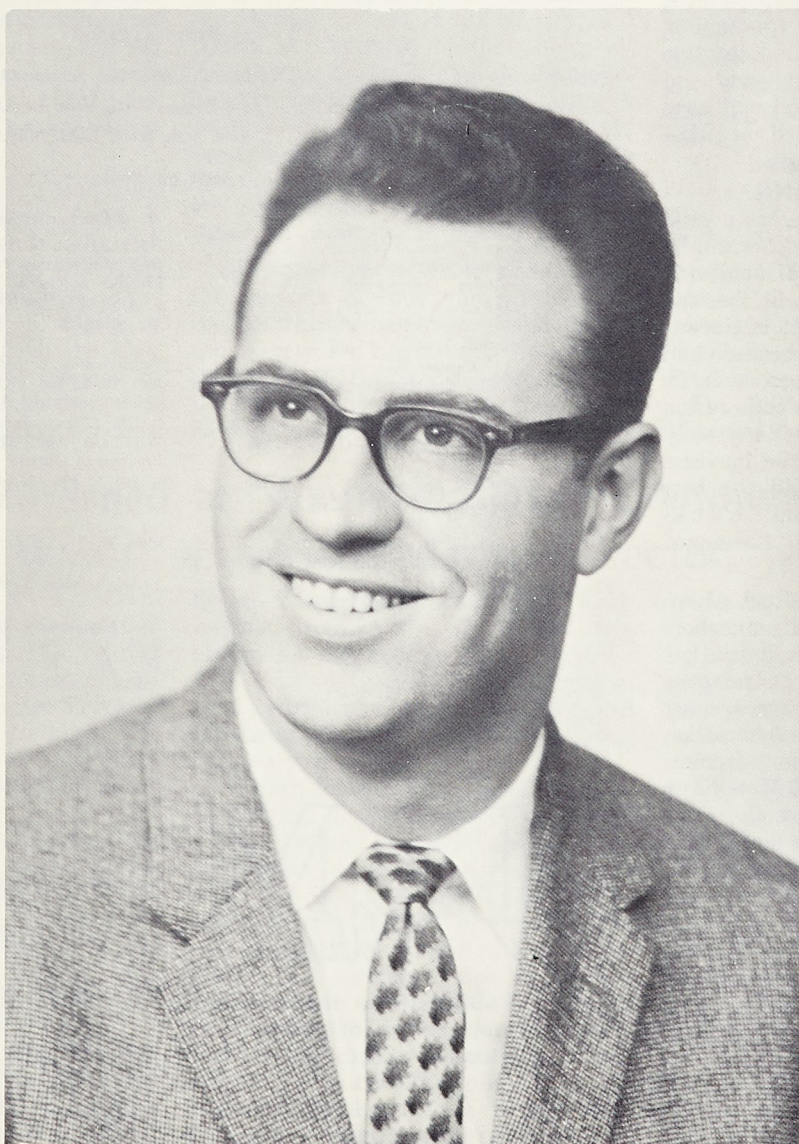
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MSM

Alumnus

JUNE 1963

JUL 30 1963 REC'D



DR. MERL BAKER

PRESIDENT'S COLUMN

You've all heard the phrase many times: "Life is not static — either we move forward or we go backwards."

Let us digress for a moment and consider the typical Missouri School of Mines alumnus, Mr. J. Where has he been? Where is he now, and where is he going?

1. WHERE HAS HE BEEN?

Mr. J. graduated from Missouri School of Mines. He spent a couple of years in the military service, most likely, and now is busy in his career.

2. WHERE IS HE NOW?

Mr. J's career may be in Research and Development, Supervision in Production, Technical Sales, or in Executive Administration. In any of these fields he needed and used the training acquired at Missouri School of Mines.

3. WHERE IS HE GOING?

It's up to him. If he has a goal, and most MSM students do, he has a good chance of achieving this goal. Some will become managers, some chief engineers, some department heads, and some sales executives, while others will become corporation presidents. Mr. J. will certainly be going places in the business world, as he has had the best technical fundamental background possible at Missouri School of Mines.

The Missouri School of Mines Alumni Association is proud of its members and their achievements, but it too has a past, present and future. Its progress is not static and, as you'll agree, must move forward. Our Alumni Association is today an active organization, promoting the School of Mines and Metallurgy so that more men may have the same opportunity you had a few years ago. It has many functions and responsibilities, all of which are not possible without your active interest.

Now, the future of our Alumni Association is indeed very bright. HOW BRIGHT? *The answer is up to you.* We need your support and your contributions.

R. O. Kasten '43
Executive Vice President
MSM Alumni Association
Guest Columnist

MSM Alumni Association

OFFICERS

Term Expires

President	James W. Stephens '47	Missouri Public Service Co. 10700 East 50 Highway Kansas City 33, Missouri	1965
Executive Vice-President	R. O. Kasten '43	Sheffield Division Armco Steel Corp. 7100 Roberts Kansas City 25, Missouri	1965
Vice-President Areas 1, 2, 3.....	J. Craig Ellis '38	310 Woods End Road Westfield, New Jersey	1965
Vice-President Areas 4, 5, 6.....	Joseph W. Mooney '39	7265 Northmoor University City, Mo.	1965
Vice-President Areas 7, 8, 9.....	William B. Fletcher '34	12081 Smallwood Downey, California	1965
Secretary-Treasurer	Leon Hershkowitz '41	Assistant Dean Missouri School of Mines Rolla, Missouri	1965
Executive Secretary	Francis C. Edwards	MSM Alumni Association Old Metallurgy Building Rolla, Missouri	
Editor, "MSM ALUMNUS"			

DIRECTORS AT LARGE

Allan J. Kiesler '40	2068 Coolidge Place, Schenectady, New York	1965
Gilbert F. Metz '14	816 Cypress Road, Vero Beach, Florida	1965
Rex Z. Williams '31	Rolla State Bank, Rolla, Missouri	1965

AREA DIRECTORS

Area No.	Director	States and Provinces Embraced	Term Expires
1.....	Robert F. Schmidt '45 6 Willowbrook Avenue Lansdowne, Pennsylvania	New England, N. Y., N. J., East Pa., Dist. of Columbia, Md., Va., Delaware, Province of Quebec	1964
2.....	J. O. Ferrell '40 1605 North 10th St. Longview, Texas	S. Ark., N. C., S. C., La., Miss., Ala., Ga., Fla.	1963
3.....	O. W. Kamper '35 608 Villavista, Pittsburgh 34, Pennsylvania	Pennsylvania, W. Va., Ohio, W. Pa., Ky., Tenn., Ind. (Except Chicago Industrial Area)	1963
4.....	Frank C. Appleyard '37 1209 Milwaukee Ave., Glenview, Ill.	N. Ill., Chicago Industrial Area in Indiana, Wisc., Mich., Minn., Province of Ontario	1963
5.....	Richard H. Bauer '52 5 Sappington Acres Drive St. Louis 26, Missouri	S. Ill., E. Mo., N. Ark.	1964
6.....	Bennett D. Howell '50 3313 South Pittsburgh, Tulsa, Oklahoma	Iowa, W. Mo., Nebr., Kan., Okla.	1965
7.....	Rolla T. Wade '31 5430 Tilburg, Houston, Texas	Texas, Arizona, New Mexico	1964
8.....		Ida., Montana, N. D., S. D., Wyo., Colo., Nev., Utah, Provinces of Manitoba, Sask., Alberta	1963
9.....	William B. Fletcher '34 12081 Smallwood Downey, California	Alaska, Washington, Ore., California, Hawaii	1964

MSM

Alumnus

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Dr. Merl Baker, Native of Kentucky, to Become Dean of MSM September 1, Has Been Active in Educational and Civic Affairs

DR. MERL BAKER has been appointed to be Dean of the Faculty of the Missouri School of Mines and Metallurgy effective September 1, 1963. He will also hold the title of Professor of Mechanical Engineering.

Dr. Baker is now Professor of Mechanical Engineering, Executive Director of the Kentucky Research Foundation, Director of AID Programs, and Executive Director of Research and Relations with Industry at the University of Kentucky.

At the School of Mines, he succeeds Dr. Curtis L. Wilson, who is retiring at 65, the compulsory retirement age for administrative officers of the University, after serving as dean at MSM since 1941. Dr. Wilson will become Dean Emeritus of MSM.

Dr. Baker, who will be 39 on July 11, is a native Kentuckian. Born in Cadiz, Kentucky, he attended the elementary schools in Cadiz, and graduated from high school at Hopkinsville, Kentucky. He received his B. S. degree in Mechanical Engineering from the University of Kentucky in 1945. Serving in the U. S. Navy, 1945 - 46, he then took graduate work and served as part-time

instructor at Purdue University, receiving his M.S. in Mechanical Engineering there in 1948, and his Ph. D. degree in 1952.

Dr. Baker was appointed assistant professor of mechanical engineering at the University of Kentucky in 1948, associate professor in 1952, and professor in 1955.

His teaching has been in both graduate and undergraduate level courses in heat transfer, thermodynamics, refrigeration air conditioning and fluid mechanics. He emphasized the fundamental engineering sciences in his courses, and served as Chairman of the College of Engineering Committee on the Improvement of Teaching. His research activities have been diversified, ranging from fundamental work in heat transfer to the philosophy of technical education. He is the author of many articles published in professional journals.

Dr. Baker has served as chairman of the research division and president of the Southeastern Section of the American Society for Engineering Education; chairman of the ASEE International Education Committee; chairman of the ECRC Committee on Research Admin-

istration; member of the University of Kentucky Committee of Fifteen and of the Planning and Policy Committee. and as a member of the Industrial Committee of the Kentucky State Chamber of Commerce.

In 1952 he was awarded the Pi Tau Sigma Gold Medal Award by the American Society of Mechanical Engineers for outstanding contributions in mechanical engineering in the first ten years after the B. S. degree, and in 1957 received the Junior Chamber of Commerce Award as one of three outstanding young men in Kentucky. He also received the Award of Merit from the American Society of Heating, Refrigeration and Air Conditioning Engineers for outstanding teaching in the field of engineering.

Dr. Baker has been active in civic affairs, is a past vice-president of the Blue Grass Council of the Boy Scouts of America, and vice-president of the Lexington Rotary Club. He is an active member of numerous professional societies, including the Kentucky Academy of Science and the American Society of Engineering Education.

Dr. Baker is married, and he and Mrs. Baker have a son and a daughter.

557 Degrees Awarded at Ninetieth Annual Commencement; DeMarquis D. Wyatt '41, NASA Program Director, Is Speaker

THE NINETIETH ANNUAL Commencement was held on Jackling Field, May 26, and 557 degrees were awarded at the exercises. There were 491 Bachelor of Science degrees; 57 Master of Science degrees; 5 professional degrees; 2 Doctor of Philosophy and 2 Doctor of Science (Honoris Causa) degrees conferred.

Due to the threatening weather the baccalaureate ceremony was held in Jackling gymnasium in the morning of the 26th. The Reverend Elbridge W. Bartley, Jr. Pastor, First Methodist Church, Rolla, was the baccalaureate speaker. His subject was "The Case Against Paganism."

The commencement speaker was DeMarquis Dale Wyatt '41, Programs Director of the National Aeronautics and Space Administration, Washington, D. C. Mr. Wyatt was born in St. Joseph, Missouri, in 1919, and received

his B. S. degree in Mechanical Engineering from MSM in 1941. Upon graduation he became a test engineer with General Electric Company and in 1942 returned to MSM to serve as an instructor in Mechanical Engineering for two years.

He then joined the National Advisory Committee for Aeronautics at Lewis Flight Propulsion Laboratory, Cleveland, Ohio, as a research engineer. He rose to Associate Chief, Propulsion Aerodynamics Division and was transferred to NACA Headquarters, Washington, D. C., in September, 1958. With the absorption of the NACA into NASA on October 1, 1958, he became Technical Assistant to the Director of Space Assistant to the Director of Space Flight Development. In February 1959, he became Assistant Director of Program Planning and Coordination of Space Flight Programs; and on June 1,

1961, he became Director, Office of Programs. In the position as Director he is responsible for integrating NASA technical program requirements and agency resources into an operable program. The Office reports to the Associate Administrator of NASA.

Dr. Wyatt advised the graduates, "The space age is the age of change—and if you think you can rest on what you have already learned, you will find yourself overtaken and pushed aside by the eager young graduates of tomorrow." He said that NASA's impressive accomplishments will be dwarfed by the United States activities during the rest of this decade as our understanding of the nature of space, the sun and the map of the universe are greatly enhanced.

"The young men who will first enter the Missouri School of Mines next fall as freshmen and who elect to extend

their formal education into the graduate levels, will still be in school at the time the United States first lands men on the moon," Wyatt predicted.

His alma mater conferred upon him a Doctor of Engineering (Honoris Causa) degree for his accomplishments and contribution to science and engineering.

The degree of Doctor of Engineering (Honoris Causa) was also conferred upon Anton John Tomasek, Chairman of the Board, Walsh Refractories Corporation and Chief Executive Officer of the Mississippi Glass Company.

Five alumni received the honorary Professional Degrees. The recipients were: Paul T. Dowling '40, Vice President-General Sales Manager, Nooter Corporation, St. Louis, Missouri who received the degree of Metallurgical Engineer.

Joel Frank Loveridge '40, Superintendent of the Alpha Portland Cement Company, Lemay, Missouri, received the degree of Civil Engineer.

Peter Felix Mattei '37, Executive Director of the St. Louis Metropolitan Sewer District, received the degree of Civil Engineer.

Samuel Harry Lloyd III, '47, President, Blue Water Drilling Corporation, New Orleans, Louisiana, received the degree of Mechanical Engineer.

The degree of Electrical Engineer



Dr. DeMarquis D. Wyatt '41 addressing the Class of 1963, their relatives, friends and guests at the 90th Commencement Exercises at MSM.

was conferred upon Alfred Nelson Hurst '49, New Products Release Engineer of the International Business Machines Company, Rochester, Minnesota.

Dean Curtis Laws Wilson received the title of Dean Emeritus of the Missouri School of Mines and Metallurgy

and Director Emeritus of the State Mining Experiment Station, and Rolfe Montgomery Rankin '27, received the title of Professor Emeritus of Mathematics.

Only One Fifty-Year Grad at Exercises

The Class of 1913 was honored at the Ninetieth Annual Commencement. The living members are presented with 50-Year Recognition Awards and they are invited back to the campus to personally receive the award. There were twenty-two graduates in the class, and of this number fourteen are deceased and the addresses of two of the members are unknown.

William Ehlers, Jr. of University City, Missouri, was the only one of the five living members who found it possible to return to the commencement exercises to personally receive the award. Mr. Ehlers has retired after many years in the construction field.

The other living members of the class are Scoville Edward Hollister, La Puente, California; William R. Knappenberger, Cleburne, Texas; Ray G. Knickerbocker, Placerville, California and John A. Murphy, Salida, Colorado.

Alumni Receive Honorary Professional Degree



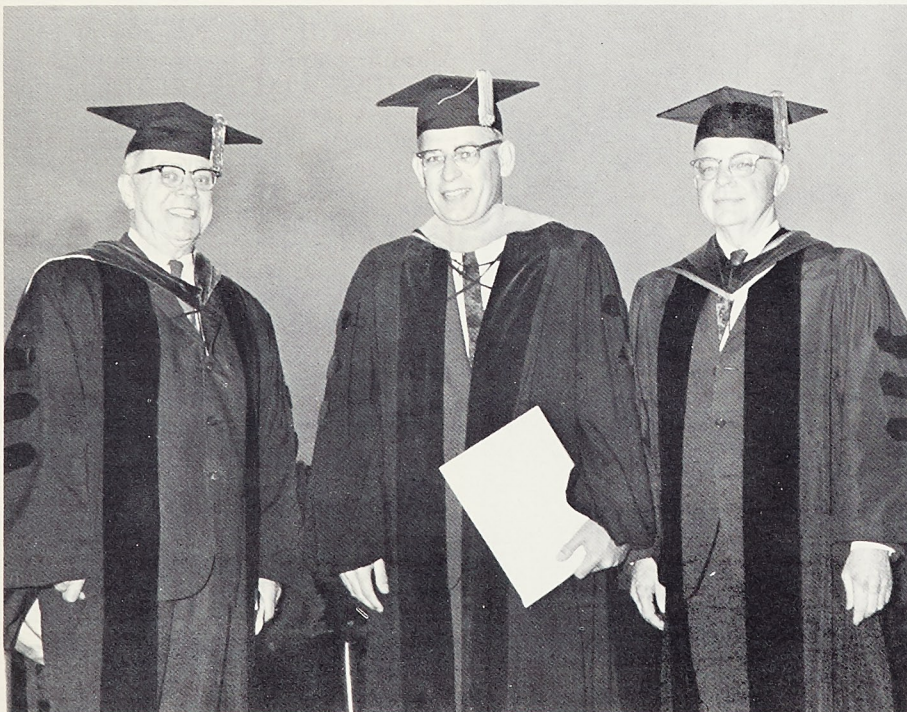
Left to right: Paul T. Dowling '40, Joel F. Loveridge '40, Peter F. Mattei '37, Samuel H. Lloyd III, '47 and Alfred N. Hurst '49.

Represents Class of 1913



William Ehlers, Jr. '13, recipient of the 50-Year Recognition Award.

Dr. Wyatt '41 Receives Doctor of Engineering Honoris Causa



Dean Curtis L. Wilson, Dr. Wyatt, Dr. Elmer Ellis.

J. O. Ferrell Appointed Area Director, Area 2

James O. Ferrell '40, has been appointed Director, Area 2, MSM Alumni Association, to serve the remainder of the unexpired term of office of J. C. Salmon, Jr. '22. Mr. Salmon resigned in March.

Mr. Ferrell is a native Missourian, born near Vichy, in Maries County, graduated from the Mountain Grove High School and entered MSM originally with the Class of 1933. He was out of school from 1932 to 1938 working with the Missouri Highway Department



J. O. Ferrell

and various contractors on highway and bridge construction. He received his B. S. in Civil Engineering in 1940 and joined U. S. Steel (Carnegie-Illinois) at South Chicago, Works. In 1942 he was transferred to Columbia Steel Division, of U. S. Steel, Provo, Utah, for construction of the Geneva Works. In 1951 he left U. S. Steel for a position with Kaiser Steel Company, Fontana, California. In 1956 he became Chief Engineer for Lone Star Steel Company, Lone Star, Texas.

Jim has been active in the alumni groups in Chicago, Salt Lake City, and Los Angeles and the Ark-La-Tex Section and is the immediate past president of the Ark-La-Tex Section.

Mrs. Ferrell is the former Helen Penninger, an alumna of the U. of Missouri. Columbia. The Ferrells have two sons. Tom is working on his Doctorate at Harvard U., and Stuart will

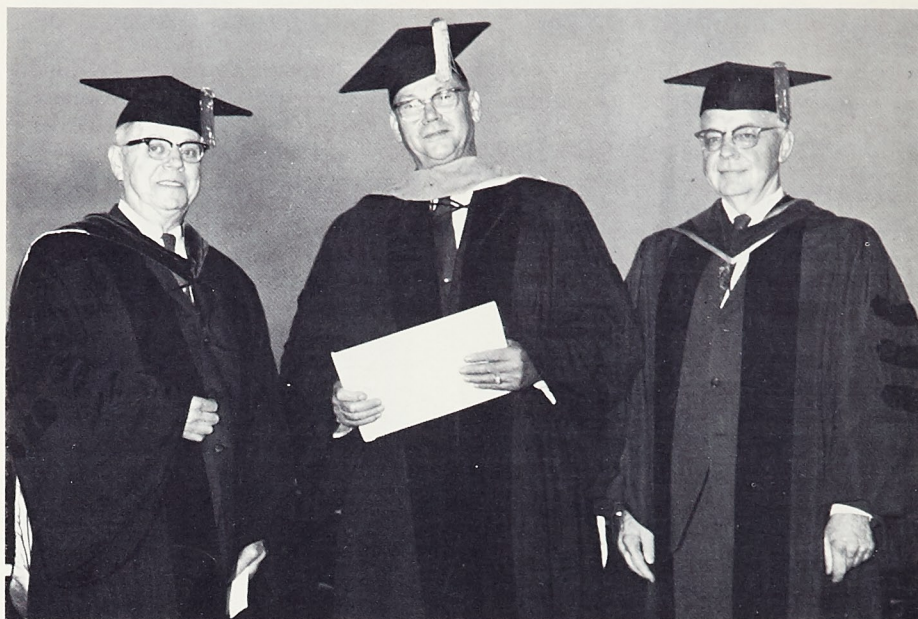
be a senior at the Missouri School of Mines next year.

J. C. Salmon Jr. '22, served many years in various capacities in alumni groups and the national Alumni Association. His fine work has been of great value to the organization and his services in an administrative capacity will be missed.

Richard H. Bauer '52, has been appointed Director, Area 5, MSM Alumni Association. This vacancy occurred upon the resignation of Joseph W. Mooney '39, who resigned his directorship since he was elected Vice President of Areas 4, 5, and 6, at the election last fall and chose to hold just the one office in the organization.

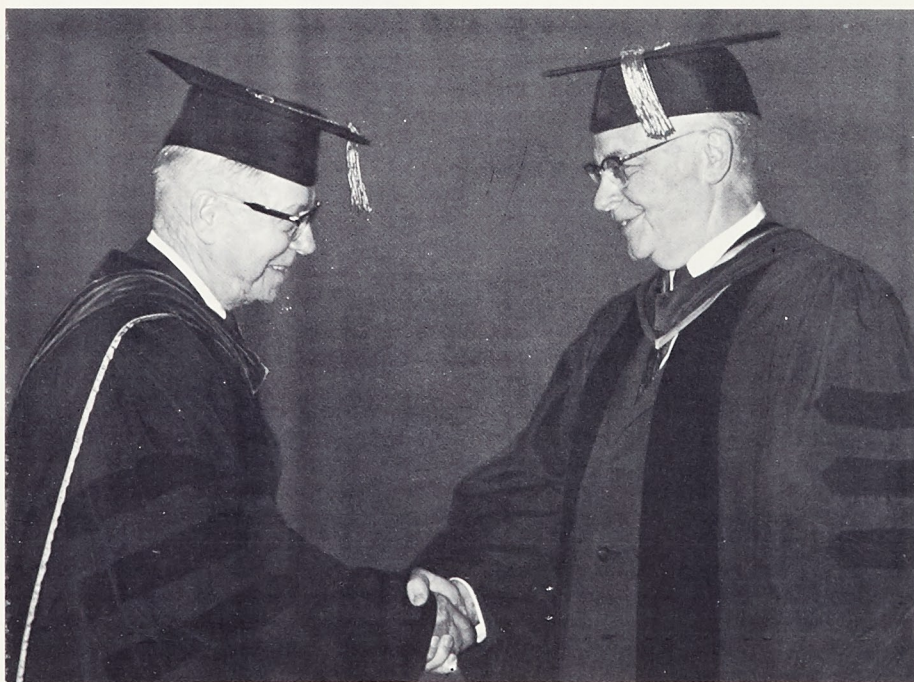
Dick is a native of St. Louis, Missouri and a Chemical Engineering graduate. He has been active in the St. Louis Section of the Alumni Association and served as president in 1961. He is with the G. S. Robins Company, St. Louis, as a sales engineer. Dick is also an adviser of the Pi Kappa Alpha fraternity on the MSM campus. Dick is married and the Bauer family lives at 5 Sappington Acres Drive, St. Louis 26.

Awarded Doctor of Engineering (Honoris Causa)



Anton J. Tomasek, Chairman of the Board, Walsh Refractories Corporation, and Chief Executive Officer of the Mississippi Glass Company, St. Louis, Missouri received the Doctor of Engineering (Honoris Causa). Left: Dean Curtis L. Wilson, Dr. Tomasek, and Dr. Elmer Ellis, President of the University of Missouri.

Dean Wilson Receives Title of Emeritus



Dr. Elmer Ellis, in conferring the title, Dean Emeritus of the School of Mines and Metallurgy upon Dean Curtis L. Wilson stated, "Dr. Wilson has set the standard by which those who follow him will be judged."

Prof. Nau Gives Paper At Circuit Theory Meeting

Robert H. Nau, Professor of Electrical Engineering, presented a technical paper, "An Artificial Transmission Line—A new Design" at the Sixth Symposium on Circuit Theory, May 6 - 7, on the campus of the University of Wisconsin, Madison.

The new line was designed by Professor Nau and built under his direction in the Shop at the E. E. Department, MSM. He has used four of these lines two semesters in his Network Analysis Laboratory. All tests give within two percent of the results for which Professor Nau calculated data for the many test conditions before the artificial transmission lines were built for the laboratory. The technical paper treated the theory and the theoretical and experimental results in detail.

Dr. Richard Harden of the Electrical Engineering Department also attended the Symposium.

The Symposium on Circuit Theory is held at eighteen-month intervals and attended by professors and circuit theory engineers in industry from all parts of the United States.

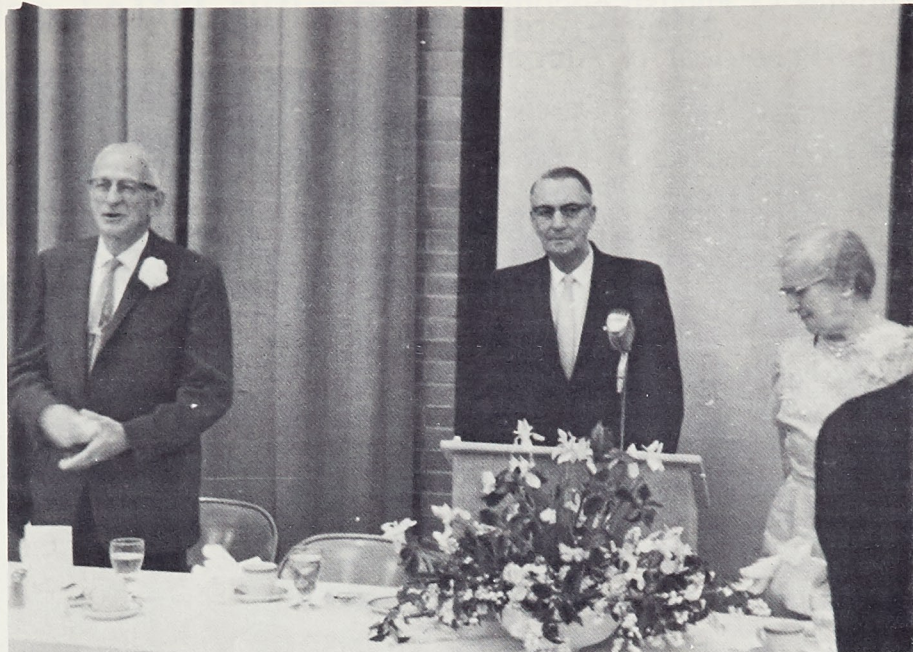
Prof. Rankin Honored For 41-Year Service

Tuesday evening, May 21, more than 125 friends and colleagues of Professor Rolfe M. Rankin '27, gathered in the Student Union Ballroom to honor him prior to his retirement from the faculty of MSM.

Professor Rankin, Chairman of the Department of Mathematics, retired at the end of 41 years of service in the Mathematics Department. During these years he served in capacities varying from Instructor to Professor and he was chairman of the department for 21 years.

Professor Rankin has seen the school grow from enrollments as low as under 200 during World War II, to over 3500 during the current year. The department has developed its services over the years and now offers the degrees of Bachelor of Science and Master of Science in Applied Mathematics. In his 41 years he has had personal contact as a teacher with 8,000 students. This does not include many thousands of other contacts in his various capacities as department chairman and faculty committee work.

It was in the city of Rolla that Professor Rankin reared his two sons, Robert Rankin '45, design engineer, St. Louis Southwestern Railway, Tyler, Texas; Norman Rankin '47, U. S. Bureau of Public Roads, Jefferson City, Mo.; and a daughter, Mrs. Carolyn Rankin Morales, Sombrerete, Zacatecas, Mexico. His family also consists of three stepchildren, Dr. Horace Robert Horton '56, Brookhaven Laboratories, New York, N. Y.; Melvin E. Hor-



Professor Rankin, Professor E. W. Carlton and Mrs. Rankin.

ton '59, U. of Oregon, and Miss Martha Horton, a registered nurse, St. Louis, Mo. All were present at the dinner except Melvin.

Professor Rankin's friends presented him with gifts at the end of the program, consisting primarily of a lounge chair and a portable radio. In the absence of the gift chair, the Ramsey Furniture Company permitted the committee the use of their ten-foot-high rocking chair, which upon its unveiling created quite a sensation.

Not only has Professor Rankin served well the School of Mines, but he has further distinguished himself by his service to his community. He has for years been a ruling elder in the

First Presbyterian Church; he has served as Worshipful Master of the Rolla Lodge No. 213, A. F. & A. M.; District Deputy Grand Master of the 39th Masonic District of Missouri; he is a member and past president of the Rolla Lions Club; he has also given outstanding service in the work of the American Legion; the U. S. O., the Salvation Army, and other local benevolent organizations.

Professor Rankin responded to the remarks made by Dean Curtis L. Wilson, Dr. C. A. Johnson, Professor D. H. Erkiletian, and Professor E. W. Carlton, the master of ceremonies, and recalled many incidents which have occurred through the years.



AT HEAD TABLE AT DINNER HONORING PROF. RANKIN: Left to right: Rev. G. Scott Porter, Mrs. D. H. Erkiletian, Mrs. Robert Horton, Robert Rankin, Mrs. Norman Rankin, Dr. C. A. Johnson, Mrs. C. L. Wilson, Mrs. C. A. Johnson, Norman Rankin, Mrs. Carolyn Rankin Morales, Robert Horton, Mrs. E. W. Carlton.

Thomas O. English Becomes Vice-President of Alcoa

Thomas O. English '29, is one of three vice presidents recently appointed by the Aluminum Company of America. He has been with Alcoa for 34 years and head of the company's purchasing department since 1961. Now he is vice president and general purchasing agent.

Mr. English is a native of May, Texas and past president of the National Association of Purchasing Agents. He received his Bachelor's degree in Electrical Engineering at MSM, and served in engineering capacities at Alcoa's

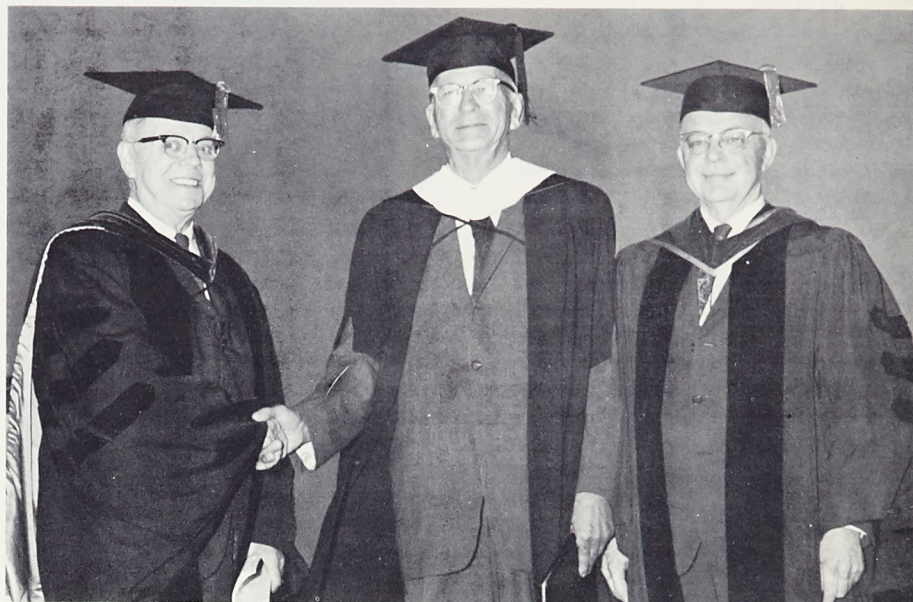


T. O. English

former East St. Louis, Illinois, Works until 1936, when he became senior electrical engineer buyer in the Pittsburgh purchasing department. Mr. English was named assistant general purchasing agent in 1944, and general purchasing agent in 1959. He served in that capacity until his appointment two years ago as head of the purchasing department.

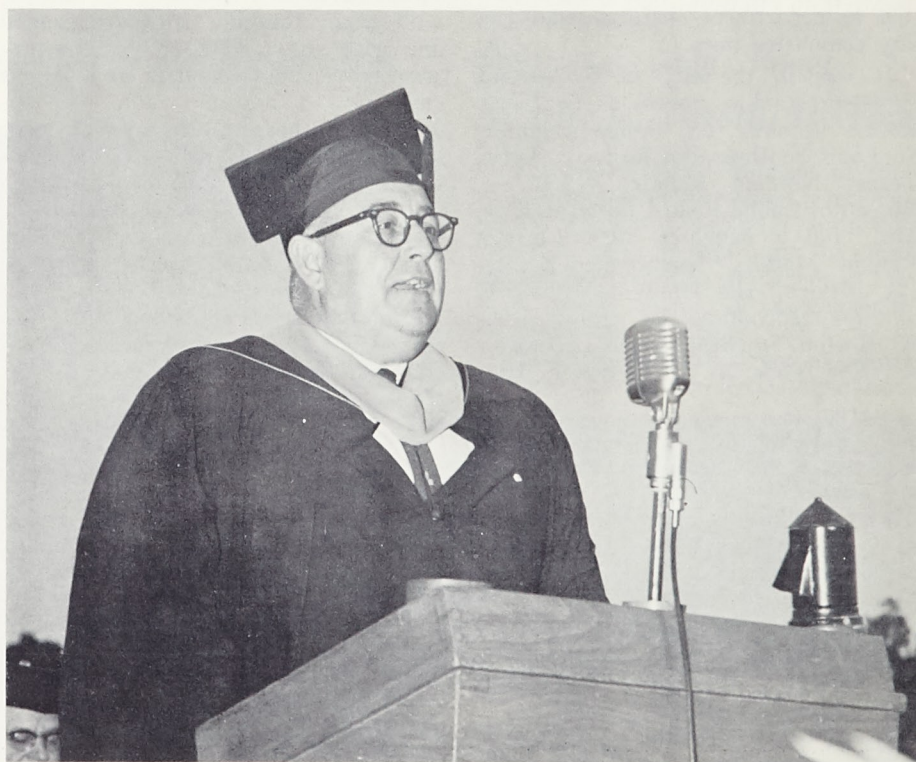
Mr. English assisted in the organization of the Materials Handling Society of Pittsburgh, the blueprint for the national organization, the American Materials Handling Society, and served as the Pittsburgh group's first president. He is a member of the planning council of the purchasing division of the American Management Association. In 1935, he received his professional degree of Electrical Engineer from MSM. In 1954, he became a member of Alcoa's 25-Year Club. He is a registered
(Continued on Page 9)

Emeritus Title Conferred on Prof. Rankin



Dean Curtis L. Wilson, Professor Rankin, Dr. Elmer Ellis.

Class of 1963 Welcomed



James W. Stephens '47, President of the Missouri School of Mines Alumni Association welcoming the Senior Class, as alumni of the school, during the commencement program and asking for their active participation in their Alumni Association.

ENGLISH

(Continued From Page 8)

engineer in the Commonwealth of Pennsylvania.

Mr. English and his wife, the former Mildred L. Holliday, live at 3220 Apache Road, Pittsburgh 34, Pa. They have two children, Dr. Thomas O. English, Jr., Anchorage, Alaska, and Laura Jeannine, wife of Dr. R. W. Abel, Franklin, Pa.

821 in Summer School; Four Special Programs

The Summer School enrollment at MSM is 821 students. This is an increase of 84 students over last summer.

In addition to courses in the normal curriculum there are two National Science Foundation programs. One is for high school teachers and the other a computer program for college teachers. In the high school teachers program there are 83 and 26 in the computer program.

There are two other programs on the campus whose enrollments are not included in the above statistics. Professor C. R. Remington, Jr., Mechanical Engineering Department, is directing a course for outstanding high school seniors who have aptitudes for engineering and science. Thirty-six, including four girls, are in this course.

Dr. Wouter Bosch has five Paint Courses running consecutively this summer with an enrollment of approximately 250.

Rewarded for Inventions



Spyros G. Varsos '55 (right) received a total of \$350 for inventions relating to communications activity at the Orlando, Florida, Division of Martin Company. Making the presentation at left is James N. Dunlop, Jr., Director of Electronics at Martin-Orlando. Varsos is a design specialist on the division's RADA Program, which has a contract to design a new tactical communications system for the U.S. Navy. Varsos has been with Martin-Orlando for two years and before that was associated with RCA. Varsos won \$250 for a RADA invention of his own and another \$100 as co-inventor of a technique for another Martin communications system. Varsos is married and the father of four children.

Attends Ford Engineering Forum



Visiting professors learn of Ford's advanced engineering. Among 51 professors at Ford Motor Company's 1963 Engineering Forum in Dearborn, Mich., June 23-28, is Charles R. Remington '49, professor of Mechanical Engineering at the Missouri School of Mines and Metallurgy. Prof. Remington, (left) is shown with H. L. Misch, Ford vice president — engineering and research, examining a model of the Mustang, Ford's experimental sports car.

MSM Gets Nearly Six Millions for Biennium

The Missouri legislature in their 1963 session approved a budget of \$5,889,928 for operational expenses for the next biennium. The amounts were as follows: personal services, \$4,952,104; additions \$115,000; repairs and replacements, \$172,000; and for operations \$650,824.

The capital improvements granted were: \$1,750,000 for a new library; \$100,000 for purchase of new sites and campus improvement; \$213,500 for special scientific equipment purchase; \$100,000 for replacement and repairs to present buildings; and \$500,000 for a physics building annex.

In addition the legislature granted \$2 million for space technology centers at Columbia and Rolla, but it is not known how the money will be divided between the two campuses.

University of Missouri
COLUMBIA

May 24, 1963

GIBSON 9-9146

OFFICE OF THE PRESIDENT

TO THE ALUMNI OF THE
MISSOURI SCHOOL OF MINES AND METALLURGY:

One of the very important problems of the University Board of Curators and the administration during the past year has been that of selecting the person to replace Dean Curtis Wilson who has reached the mandatory retirement age for top administrative officials of the University. All of us were deeply regretful that the time had come for Curtis Wilson to relinquish the deanship. He has given distinguished leadership to the School of Mines and Metallurgy, and he and Mrs. Wilson have been exceptionally pleasant people with whom to work.

The new Dean will be Dr. Merl Baker, a native Kentuckian, who has been on the Engineering faculty of the University of Kentucky since 1948 and Executive Director of the Kentucky Research Foundation since 1953. He comes to us with exceptional qualifications both in training and in experience. The Board of Curators, the faculty committee which assisted me and Dean Wilson all feel that we have found the ideal person to lead the School of Mines and Metallurgy for the next generation. Indeed we are fortunate in being able to secure his services. Dr. and Mrs. Baker and their two children will move to Rolla in August and they look forward to meeting the alumni during the coming year.

Elmer Ellis
ELMER ELLIS

THE KENTUCKY RESEARCH FOUNDATION

UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY
July 1963

Dear Alumni:

This letter is written when I look forward enthusiastically to meeting my work at Rolla progresses. I am graduates, and gratified to see so try, government and education. An accomplishment of its faculty and generate an excellent image of the courage the faculty to greater achievement in public service.

Most of you received your degree from the school. I share with you the hope that you will appreciate the advantage which is now propitious for an interesting program. It is in such areas that in future years, and I am pleased administration. We owe these programs to the foundation now existing toward such goals.

I predict a continuing growth of degrees awarded and, more important, is now propitious for an interesting program. It is in such areas that in future years, and I am pleased administration. We owe these programs to the foundation now existing toward such goals.

Service that promotes state and local development is and should be within the scope of a State University. We, as resources become available in these directions.

The Missouri School of Mines and Metallurgy has done much to enhance the stature of the engineering profession, and will continue to do so in the future. To achieve this we must have strong programs in the basic sciences and research.

We eagerly solicit your assistance in attracting good students and employing outstanding faculty members, and developing research and graduate programs.

THE STUDENT COUNCIL



UNIVERSITY OF MISSOURI
SCHOOL OF MINES & METALLURGY
ROLLA, MISSOURI

MSM ALUMNUS
Mo. School of Mines
Rolla, Mo.

STUDENT COUNCIL OFFICE
STUDENT UNION BUILDING
Mo. School of Mines
Rolla, Mo.

TO THE ALUMNI:

OVER THE PAST 22 YEARS, THERE HAS DEVELOPED AT MSM A SPIRIT OF KINSHIP BETWEEN THE DEANS' OFFICE AND THE STUDENT BODY WHICH WOULD BE HARD TO FIND ON ANY OTHER COLLEGE CAMPUS IN OUR COUNTRY. DEAN WILSON HAS WELCOMED ALL STUDENT PROBLEMS AND SUGGESTIONS WITH AN OPEN DOOR AND AN OPEN MIND. HIS DECISIONS HAVE ALWAYS BEEN BASED ON WHAT HAS BEEN BEST FOR THE STUDENTS. THE DEANS' COMING RETIREMENT WILL BE A LANDMARK IN STUDENT-ADMINISTRATION RELATIONS.

THIS FALL DR. MERL BAKER, THE NEW DEAN, WILL BECOME THE HEAD OF A FINE ENGINEERING SCHOOL. HE IS ALREADY WELL ON THE WAY TOWARD RECEIVING THE FULL BACKING OF THE STUDENT BODY. ON MAY THIRTEENTH, A BREAKFAST WAS HELD AT WHICH DR. BAKER MET WITH THE LEADERS OF SEVERAL OF THE MAJOR CAMPUS ORGANIZATIONS. THE BREAKFAST, WHICH WAS ORIGINALLY INTENDED AS A SHORT GET-ACQUAINTED SESSION, TURNED INTO A LONG DISCUSSION PERIOD DELVING INTO MANY SCHOOL PROBLEMS. THE STUDENTS AT THE BREAKFAST WERE VERY PLEASED AND IMPRESSED WITH THE NEW AND FINE IDEAS DR. BAKER MENTIONED, CONCERNING NOT ONLY EVERYDAY SCHOOL PROBLEMS, BUT ALSO WAYS OF EXPANDING AND IMPROVING THE SCHOOL.

IN BEHALF OF THE STUDENT BODY, I WOULD LIKE TO SAY THAT WE ARE LOOKING FORWARD TO THE ARRIVAL OF DR. BAKER, AND WE HOPE THAT HIS YEARS AT MSM ARE AS MANY AND AS FRUITFUL AS THOSE OF DEAN WILSON.

SINCERELY,
C. Dale Marshall
C. DALE MARSHALL
PRESIDENT
1963-64 STUDENT COUNCIL
Mo. School of Mines

UNIVERSITY OF MISSOURI SCHOOL OF MINES AND METALLURGY ROLLA

TO ALL ALUMNI:

On August 29, 1963 I will reach the mandatory retirement age of 65 and, under the long-established rules of the Board of Curators, I am to retire on September 1, 1963.

I wish to thank all graduates of Missouri School of Mines and Metallurgy for the many courtesies extended to me during the past 22 years, which have contributed substantially to the progress and growth of MSM during that period.

At this time I would like to bespeak your continued interest and cooperation for my successor, Dr. Merl Baker, who will assume his duties on September 1, 1963. Dr. Baker has visited the campus a number of times already and we have all been very favorably impressed with his youthful enthusiasm and by the substantial record of accomplishments which he has previously attained; all of this speaks well for the further progress of this school. I sincerely ask of all former students of the past 22 years, and other alumni, the good will and understanding for Dr. Baker which you have so generously given to me.

With my very best wishes to all of you, I am

Most sincerely yours,

Curtis L. Wilson
Curtis L. Wilson
Dean

Merl Baker
Merl Baker

MISSOURI SCHOOL OF MINES AND METALLURGY
ALUMNI ASSOCIATION
ROLLA

GREETINGS!

In behalf of all MSM Alumni, we want to issue a warm Missouri welcome to Dr. Merl Baker. We are indeed fortunate to have Dr. Baker on the MSM campus as our new Dean and successor to Dean Curtis L. Wilson.

Dr. Baker has been selected to head MSM from a field of top qualified candidates for the position from all over these United States. It is a credit to MSM that Dr. Baker has been selected to head our institution. It is also a credit to Dr. Baker that he has been selected to head our institution with its world-wide reputation in the field of science and technology.

At the same time, it is with a great deal of regret that we must say farewell to Dr. Curtis L. Wilson as Dean of MSM. Dean Wilson has steered MSM well over the past 22 years. During that time we have seen a tremendous expansion in both the physical and academic plant. MSM Alumni will always be indebted to Dean Wilson for the honor he has brought to MSM personally as well as the high caliber of scholastic standards which have been established and constantly improved. It is certain that Dean Wilson will always get a great deal of satisfaction from the fact that more engineers of consistently high caliber were graduated under his tenure as Dean of MSM than in all the previous administrations put together since the institution was founded.

In behalf of the MSM Alumni Association, we want to pledge our help, cooperation and loyalty to Dean Baker as he assumes his new duties and extend our best wishes for continued success.

I am sure all MSM Alumni will want to make plans now to return for Homecoming the weekend of November 2 and get acquainted with Dean Baker.

Sincerely,

James Stephens

General and Mrs. Leber Receive High Honors For Service to People of the Panama Canal Zone

ONE OF THE HIGHEST HONORS the Republic of Panama can confer, the Order of Vasco Nunez de Balboa, was presented to Brigadier General Walter P. Leber '40, and to Mrs. Leber in a stately ceremony held April 3rd in the Presidential Palace in Panama shortly before General Leber left the Isthmus for his new post in Cincinnati as Ohio River Division Engineer.

General Leber received the Order in the grade of "Gran Oficial" and Mrs. Leber in the grade of "Comendador." It is believed that this was the first time in the history of the Panama Canal that a Canal Zone Lieutenant Governor and his wife both have been so honored.

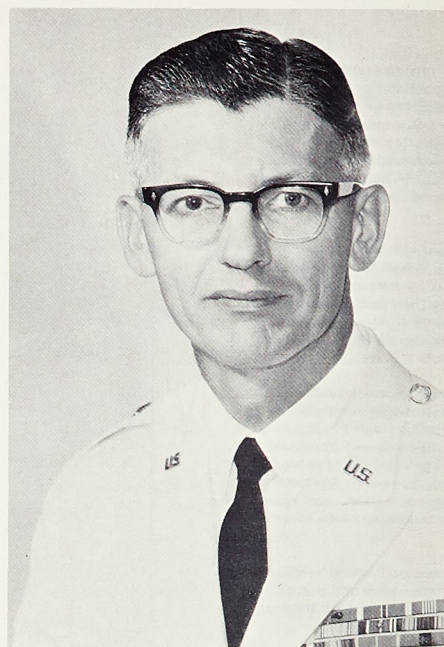
The citation accompanying the decoration presented General Leber stated that during his tour of duty in the Canal Zone as Lieutenant Governor he gained the esteem and the hearts of Panamanians and carried out his duties with justice and honesty. He shared in the life of Panama, in the city and in the

country, in solemn times and in the regional fairs where he represented the North American residents of the Canal Zone and effectively strengthened the links of friendship and inter-American solidarity between the Panamanians and the United States citizens.

The citation with the decoration for Mrs. Leber stated that "from the day she arrived on the Isthmus of Panama to the present, she donated felicitous understanding between the Zonians and the Panamanians in the many activities in which she participated. She gave her heart and her goodwill to the Panamanian people.

"With kindness and dedication, Mrs. Leber taught destitute women how to use sewing machines so they could help their families and showed them that no matter how poor a person may be, she still is able to give help to another," said the citation. "And there is no count of how many times and how many thousand items of clothings, school uniforms, sheets, and pillowcases the

(Continued on Page 13)



Brigadier General Walter P. Leber, a 1940 graduate of the Missouri School of Mines and Metallurgy, and currently Ohio River Division Engineer for U.S. Army Corps of Engineers at Cincinnati, Ohio.



Brig. Gen. W. P. Leber, former Lieutenant Governor of the Panama Canal, and Mrs. Leber (both at left) received one of Panama's highest honors when each was presented the Vasco Nunez de Balboa decoration in the Presidential Palace in Panama City. Panama President Roberto F. Chiari (center) presented the decoration to Gen. Leber and Mrs. Leber received the decoration from Panama's First Lady, Mrs. Chiari. Standing beside President Chiari is Canal Zone Governor Robert J. Fleming, Jr., and at right is U.S. Ambassador to Panama Joseph S. Farland.

GENERAL LEBER

(Continued From Page 12)

poor communities of Panama received through the efforts of Mrs. Leber."

"It is the duty of the Government to publicly recognize work such as hers."

Panama's President Robert P. Chiari presented the Order of Vasco Nunez de Balboa to General Leber. Mrs. Leber received her decoration from Panama's First Lady, Dona Cecilia Orillac de Chiari.

General and Mrs. Leber went to the Canal Zone in June 1961 from Washington, D. C., where General Leber had served three years as Executive Officer to the Chief of Engineers. General Leber was nominated for promotion to Brigadier General by President Kennedy in March. The promotion was confirmed April 8.

Shortly after Mrs. Leber arrived on the Isthmus with her family, she adopted a tiny Panama village approximately five miles from Colon and started a self-help program through sewing classes for women of the town.

Every Monday morning throughout the year, Mrs. Leber set out from her home at Balboa Heights for Cativa on

the Atlantic Coast of Panama. The sewing classes were held in the local church and the women were taught to make clothes for themselves and their families, as well as household articles.

Children's dresses, school uniforms, blouses, skirts, pillowcases and pot holders were among the articles made by the village women, who followed a system Mrs. Leber taught them of making one article for themselves and another to be given to someone else.

"Thanks to our Bernie, we are the best-dressed community in Panama," one elderly woman stated proudly during a farewell party given by the Cativa village for Mrs. Leber. "She showed us that no matter how poor we are, we can always help someone else too."

Last year a certificate of appreciation was presented to Mrs. Leber by the British Methodist Church, Colon Circuit, Republic of Panama "in recognition of her outstanding service and works of charity rendered to the community, the poor, and the underprivileged."

When the Panama Canal Women's

Welfare Group was organized last August by Mrs. Robert J. Fleming, Jr., wife of the Governor of the Canal Zone, Mrs. Leber was named Vice President and Chairman of the Community Projects Committee. Mrs. Leber also took an active part in the work of the Panama Red Cross as a Gray Lady in the Panama hospitals and distributed the organization's food packages to the needy in Panama.

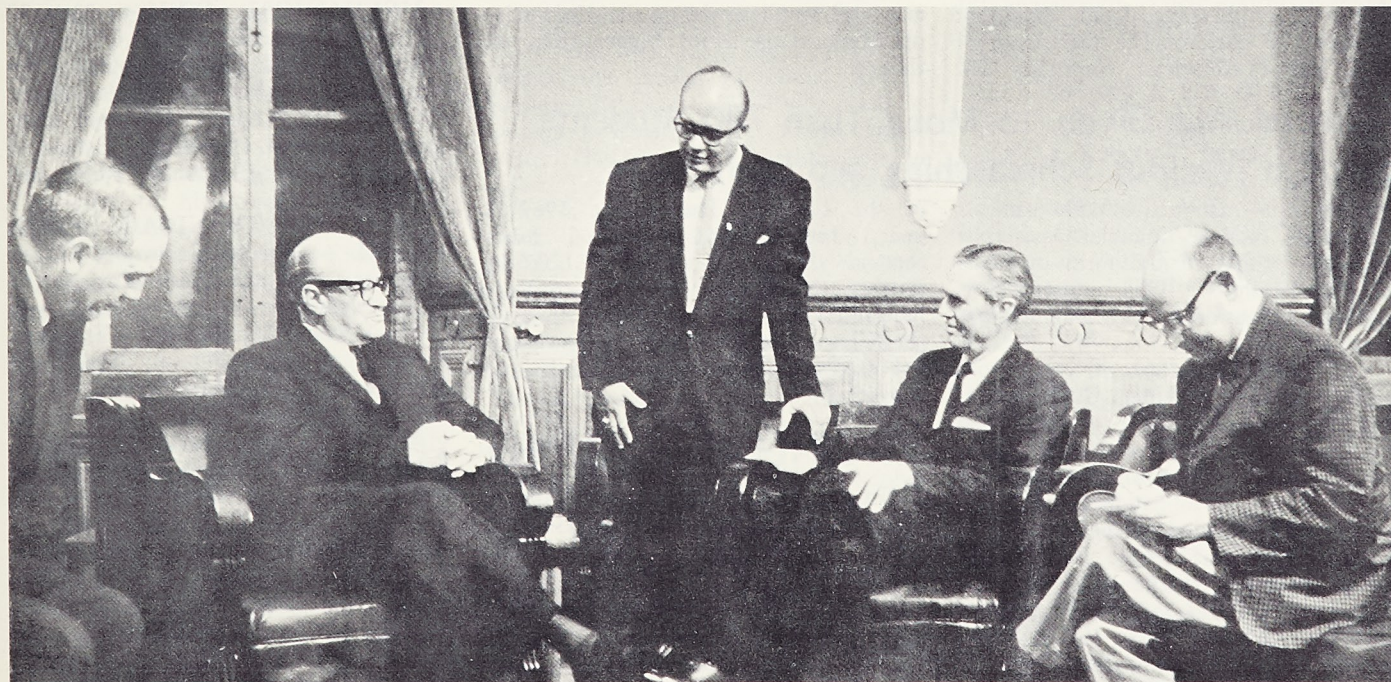
In addition to General Leber's official duties in the Canal Zone he was Chairman of the Governor's Council for Voluntary Giving, a member of the Board of Trustees and Executive Committee of the Canal Zone United Fund, a member of the Committee of Management of the Canal Zone YMCA and President of the Canal Zone Council of the Boy Scouts of America.

Mrs. Leber is the former Bernice Jean Palus of Walla Walla, Washington.

General and Mrs. Leber have three children: Randy, age 17, Bonnie Gay, age 10, and Philip Kevin, age 7.

Their mailing address is the U. S. Army Engineer Division, Ohio River, P. O. Box 1159, Cincinnati, Ohio.

President of Honduras With U.S. Bureau of Public Roads Officials



Left to right: Mr. Jorge Bueso Arias, Honduras Minister of Finance; Dr. Ramon Villeda Morales, President of the Republic of Honduras; Frank T. Alvarado, Office Engineer of Nicaragua Division, U. S. Bureau of Public Roads; Rex M. Whitton, U. S. Federal Highway Administrator and Ron McGhee, United Press reporter.

Alvarado Supervises Caravan of Highway Engineers Through Nicaragua and Honduras

Frank T. Alvarado '52, has been in the Inter-American Region of the U. S. Bureau of Public Roads for the past five and one-half years. Three of these years were spent in Costa Rica as a design engineer and the last two and one-half years as office engineer in the Nicaragua Division which also covers the Republic of Honduras.

The Ninth Pan-American Highway Congress was held in Washington D. C., the early part of May and delegates from the United States, Canada and the Latin American Republics attended. Most of these delegates formed part of a caravan which started by bus from Panama and drove all the way through Central America on the Inter-American Highway which is part of the over-all Pan-American Highway. Rex M. Whitton, Federal Highway Administrator, was the principal United States dignitary in the caravan.

It was Alvarado's responsibility to see that the caravan's journey through Nicaragua and Honduras was accomplished with the minimum amount of difficulty and the daily programs were coordinated properly. Mr. Whitton delivered a message from President Kennedy to each of the presidents of the Central American countries. Dr.

Ramon Villeda Morales, of Honduras, was unable to greet the caravan officially because of previous commitments and he received a group of the caravan representatives in his Palace. Mr. Whitton, Alvarado and Mr. R. McGhee, U. P. reporter, were representatives at this informal meeting. The group spent thirty minutes with the head of state and one of his ministers, discussing the different transportation problems of the country and delivering President Kennedy's personal greetings.

Coincidentally, Mr. Whitton and Mr. McGhee were graduates of the University of Missouri, Columbia campus and Alvarado from the Rolla campus.

Alvarado stated in his letter, "Although the conversation for a time became concentrated on the University of Missouri, common ground was difficult to find due to the wide spread of graduation years; nevertheless, Professor E. W. "Skip" Carlton was one common subject, for I had been in several of his classes while at Rolla, and Mr. Whitton told of his great friendship with the Professor." In ending, Frank remarked, "Either this is a real small world or the University of Missouri is a lot bigger than we think."

Financial Aid Given to More Than 700 Students Through Various Scholarships and Loan Funds

Many students on the MSM campus each year receive financial assistance from the school in the form of loans and scholarships. This assistance is available to students in every department and class.

The scholarships range in value from \$100 to the \$1,250 Albert E. Buck Memorial Scholarship. They are awarded on the basis of scholastic achievement and financial need. In the 1962-63 school year, 278 students received scholarships awarded by the school with a total value of \$75,446. In addition, 36 scholarships with a total value of approximately \$17,355, were awarded to MSM students for the 1962-63 school year by organizations and individuals. These are scholarships for which MSM does not select the recipients.

The loans have a wide variety of values depending mainly on the needs

of the student. During the 1962-63 year, 366 students received loans through the school totalling \$120,684. During the same period 61 students received loans, worth \$36,635, through the United Student Aid Fund program operated in cooperation with banks and the school.

ENGINEERS WANTED

For information concerning the positions listed below write to Assistant Dean Leon Hershkowitz, MSM, Rolla, Missouri.

ENGINEERS — Large electric company openings available for 20 to 25 in their manufacturing training program. Most all fields of engineering. 3-year program of bachelor degrees, 2 years for master's. Varying amounts of industrial or related military experience required for specific position considera-

tion. Refer File No. 3.

METALLURGIST — Manufacturer of automotive parts in Southern Illinois. Excellent opportunity to establish testing procedures and improve processes. Refer File No. 166.

MECHANICAL - METALLURGICAL - CHEMICAL — Quality control, process and research. Large pen manufacturer. Salary open. Refer File No. 167.

ENGINEER — With experience in tunneling under air pressure for excavation. Refer File No. 168.

CERAMIC ENGINEERS — Experience in sanitary ware field. One position in midwest the other on the Atlantic coast. Refer File No. 169.

PHYSICAL METALLURGIST — In research laboratory. M. S. degree. Diversified problems in alloy development, melting and casting techniques, and metalworking of conventional and unconventional alloys. Midwest. Refer File No. 170.

PLANT METALLURGIST — 3 to 5 years experience. Work highly diversified. Refer File No. 171.

MECHANICAL - CHEMICAL - DESIGNER — 2 to 5 years experience on first two. Latter experience not necessary. Midwest chemical company. Refer File No. 172.

MECHANICAL - CIVIL — 23 to 32 years. B. S. in M. E. and C. E. — Experience desirable, not mandatory. Construction of missile facilities, dams, hydro-electric projects, roadways, reinforced concrete structures. Scope of operation — international. Refer File No. 173.

CIVIL - MECHANICAL - ELECTRICAL — Electrical Project Design Engineer, Assistant Plant Engineer, 5 years experience in heavy machinery field; Sales Application Engineer, graduate mining engineer. Sales Engineer Trainee, Diesel Engine. Refer File No. 174.

MECHANICAL - INDUSTRIAL — Sales in foundry supply and equipment business. Midwest. Refer File No. 175.

MECHANICAL - CHEMICAL - PETROLEUM - GEOLOGIST — Large Oil company. Production in Texas. Geologist, Houston, Midland, Texas and overseas. Field engineers overseas. Process engineers domestic. Refer File No. 176.

CHEMICAL — Up to 10 years experience in process engineering in chemical and petroleum. Refer File No. 177.

PROJECT ENGINEER — C. E., M. E., or Cer. E. Major refractories company to prepare plans estimates for plant renovations and expansions. 5 years experience in industrial plant layout and design. Permanent position with above average benefits. Refer File No. 178.

MET. ENGINEER — Manufacturing development engineering department. Must have knowledge of ferrous and non-ferrous metals, fabrication, heat treating, tool steels and testing equipment. Refer File No. 179.

CERAMIC ENGINEER — 2 to 5 years experience in high quality and production of glass to metal sealing or ceramic to metal sealing operations. Company entering this field. East coast. Refer File No. 180.

PLANT ENGINEER — Several years experience with E. E. background. Lime and cement company. In east. Refer File No. 181.

MANAGER OF MANUFACTURING ENGINEERING — Southeast U. S. Manufacturer of high quality electrochemical equipment. Direct staff of 50 engineers and technicians. A practical, cost conscious engineer oriented in industrial engineering. Refer File No. 183.

M. E. — Middle management position in engineering department for machinery control department. Manufacturer of men's leisure, western and work clothing. Age 22 to 28. Refer File No. 184.

M. E. — Research institute in south. Studies in the thermal and mechanical properties of high-temperature materials. Refer File No. 185.

M. E. — Public Works Engineering Division, U. S. Navy. 3 years experience and qualify for GS-11. In base outside continental U. S. Refer File No. 186.

E. E. — Electrical Field Service Engineer in midwest region. Travel in midwest. Recent grads will qualify. Service switchgear, control, transformers, regulators, relays, circuit breakers, etc. Refer File No. 187.

M. E. — Paper container manufacturer. Experience not necessary. Midwest. Refer File No. 188.

C. E. — Consulting firm. Experience not necessary. Midwest. Good salary and benefits. Refer File No. 189.

ENGINEERS — M. E., E. E., Mining E. 35 vacancies in field engineering. Under 30 years of age. Wide choice of geographic locations. Com-

pany provides technical services to the oil industry. Refer File No. 190.

M. E. — Mechanical and structural design of high frequency antenna systems on a project basis. 3 to 6 years experience in design in closely allied field. Refer File No. 192.

CHEMISTS - Ch. E. — Large chemical manufacturing company. Positions in many categories. Research, Manufacturing, Marketing, Development and Engineering. Refer File No. 194.

M. E. - E. E. - Met. E. — Sheet and Tube Company. In laboratory and production and maintenance. Midwest. Refer File No. 195.

DESIGN AND DEVELOPMENT ENGINEERS — Large pharmaceutical company. Special equipment for the research, production and packaging. Refer File No. 196.

Ch. E. - E. E. — Process and mechanical. 2 to 10 years experience design, process, improvement, economics and technical assistance to plant operations. Background in pumps, turbines, compressors for work in high pressure design and stress calculations. Refer File No. 197.

E. E. - M. E. — Large gypsum company. Positions in midwest and west coast. Age 22 to 35. Refer File No. 193.

BIRTHS

Mr. and Mrs. R. C. Rankin '45, announce the arrival of David Robert Rankin, February 25, 1963. Bob is Designing Engineer, St. Louis Southwestern Railway with headquarters in Tyler, Texas. The Rankins' address in Tyler is 1411 Santa Rosa.

Mr. and Mrs. Ellis Shafer '61, are parents of a daughter, Lesa Marie, born September 18, 1962. This is their first child. Ellis, June and Lesa reside at 176 Lawn Drive, Belton, Missouri. Ellis is an electronic engineer for the Federal Aviation Agency in Kansas City, Mo.

Mr. and Mrs. George Stevens '52, have a son, Eric Joseph, born October 9, 1962. The Stevens are living in Hermosa Beach, California, 1231 7th Street. The father is senior specialist, materials research, Douglas Aircraft Co.

Mr. and Mrs. Albert E. Cawns '59 belatedly advised the alumni office of Elizabeth Carrick who arrived at their home November 11, 1962. The Cawns live at 6220 Rosebury Ave., St. Louis 5, Mo. The father is a methods engineer at the McDonnell Aircraft Corporation.

Mr. and Mrs. David E. Putnam '60, also belatedly announce the birth of Jamie Ellen, born November 12, 1962. She has a sister Andra Kyn, 2½ years old. The Putnams are living at 704 Westwood Drive, N. W., Huntsville, Alabama, and David is an associate engineer with the Boeing Company.

Mr. and Mrs. Roy C. Wollgast '58, sent the information in late but they are proud of their first son, Mark, born June 1, 1962. Roy is a project engineer with Sperry Phoenix Company, Phoenix, Arizona and their address is 820 East McLellan Blvd., Phoenix 14.

Mr. and Mrs. Thomas C. Metcalf, Jr. '58, welcomed their first child, Melanie Marie, August 19, 1962. Tom is with the Rock Island Arsenal as a mechanical engineer. Their residence address is 624 6th Ave., East, Milan, Illinois.

Mr. and Mrs. Don L. Willyard '62, announce the birth of Jeffrey Lance, April 7, 1963. Don is an instructor in the Electrical Engineering Department, MSM, and they live at 141 Nagogami Terrace, Rolla, Mo.

Mr. and Mrs. L. J. Rathgeb '58, have increased their family to four children when Pamela Ann arrived January 22, 1963. The father is with the engineering division of Chrysler Corporation in product design. Their address is 28138 Park Court, Madison Heights, Michigan.

MARRIAGES

Toma - Eisenhardt

2nd Lt. Robert F. Toma, Jr. '62, and Miss Nancy Jane Eisenhardt were married December 28, 1962. Lt. Toma after his Ordnance Officers Orientation Course at Aberdeen, Maryland, was ordered to Ft. Hood, Texas. Their address now is 1614 Duncan Avenue, Killeen, Texas.

Baxter - Seifert

2d Lt. Boyd R. Baxter '62 and Miss Reni Seifert, of West Berlin, Germany, were married in the American Chapel in Augsburg, Germany, by Colonel Mollner. The bride was attended by her sister, Karen Gasar. The best man was Lt. Ike Gasar, an officer in the German Luftwaffe. Lt. Baxter is an Assistant Post Engineer in his organization in Germany. The bridegroom's mother, Mrs. Aaron Baxter, of Rolla, flew to Germany for the wedding.

Erismann - Smith

Rex Erismann '63 and Miss Donna Smith, of Joplin, Missouri, were married June 15, 1963. They reside at

403 N. E. 18th, Grand Prairie, Texas. The groom is employed at Chance Vought, a division of Lima-Temco-Vought, Inc., as a test engineer and he is working on the Scout Missile Program.

Mantz - Moll

Harold C. Mantz '62, and Miss Doris Moll were married April 21, 1963. Harold is with Boeing Aircraft and has been transferred from Wichita, Kansas, to Huntsville, Alabama. A total of five engineers were in the wedding. Almost an engineer's wedding.

Harclerode - Reece

Don M. Harclerode '61 and Miss Judy Reece of Mission, Kansas, were married March 22, 1962. Don is now with Fairbanks-Morse Company as a test engineer. His address is 3211 Hardesty Dr., Kansas City 28, Missouri.

DEATHS

Ralph Robert Benedict '08

Ralph Robert Benedict '08, died March 2, 1963, in Cleveland, Ohio. He received his B. S. degree in Mining Engineering and his Professional Degree in Civil Engineering in 1915. He was Recorder, Missouri River Commission from July to October 1898, and Computer, Dawes Commission, Department of Interior for June to November 1901. During the summer months of 1905 to 1908 he worked for the Board of Park Commissioners, Kansas City, Mo. After graduation he joined the Park Commission chief inspector of construction. In 1913, he was promoted to acting executive officer and became assistant superintendent of parks in 1915 and served in this capacity until 1918. He then became statistical expert, Ordnance Department, U. S. War Department, Washington, D. C. In 1920 he went with the Illinois Highway Department as Assistant to the Chief Highway Engineer and was with this organization until 1935 when he was appointed Associate Highway Engineer, U. S. Bureau of Public Roads. He retired from that organization on March 31, 1962, as Supervising Highway Design Engineer. He was a life member of the American Society of Civil Engineers; American Association of Highway Officials; Masonic Lodge; Triangle fraternity, and an Elder in the Presbyterian Church. Interment was in Kansas City, Missouri.

Fred E. Gray '23

Fred E. Gray '23, age 66, died December 28, 1962, at Denton, Texas,

where he made his home after retirement in 1959, because of illness, from the Colorado Copper and Zinc Co. Mr. Gray was born in China and was the son of Baptist missionaries. He was a veteran of World War I serving with the U. S. Naval Aviation and throughout the remainder of his life retained an interest in aviation, as a C. A. P. pilot during World War II and owner and pilot of his own plane. Following his education except from the period 1944 to 1949 when he was a citrus grower in California and Texas, his experience covered a wide field, as Mill Superintendent at the Presidio Mine, Shafter, Texas to 1930; Consultant on Iron Ore Concentration to 1932 in U. S. S. R. for Oglebay, Norton Co., General Superintendent Bralorne Mine, B. C. to 1937; General Manager Desert Silver, Inc., Nevada to 1943; Manager of Johnson Camp operations of Coronado Copper and Zinc Co., 1949 to 1959. At various times during the period 1940 to 1947 he served as a director and metallurgical consultant to Summit King Mines, Ltd., a director of Rio Grade Valley Fliers Assn; a director of Nevada Mine Operators Ass'n and a member of Nevada Mine Advisory Board. He is survived by his widow Maurine; two sisters and a brother.

Eugene Harmon Patton '62

Eugene Harmon Patton '62, was killed in an airplane accident according to information received at the Alumni Office. Captain Patton was on active duty in the U. S. Army.

Frank W. Sharp '49

Frank W. Sharp '49, died of Hodgkins Disease, March 35, 1963. He was employed as group leader with Halliburton Oil Well Cementing Co., and resided in Duncan, Oklahoma.

Joseph Nathan Harris '25

Joseph Nathan Harris '25, died after a long illness, March 13, 1963, in St. Petersburg, Florida.

Benjamin Clark Speak '51

Benjamin Clark Speak '51, passed away February 6, 1963.

True Walter Blake '11

True Walter Blake '11, age 73, died May 25, 1963, at his home, 707 Miramar, Fullerton, California. Mr. Blake was born in Chicago, Illinois and had lived in Fullerton for a year and a half. He was a retired Superintendent of Union Carbide Company, Niagara Falls, N. Y. "Red," as he was known when at MSM, was captain of the football team in 1911, and he was awarded his

professional degree Mining Engineer in 1914. He was a member of Tau Beta Pi, the honorary engineering fraternity. He is survived by his widow, Mrs. Marion Blake; one son, Walter T. Blake, Ridgewood, N. J.; two daughters, Mrs. June Wilde, of Fullerton, and Mrs. Barbara Bell, Granada Hills; seven grandchildren; a brother, George, of Tucson, and a sister, Winfred Blake also of Tucson.

J. Bruce Clemmer '28

J. Bruce Clemmer '28, M. S. in Science, died June 9, 1963, following an operation in the Latter Day Saints Hospital, Salt Lake City, Utah. He held an administrative position with the Bureau of Mines and had been in their employ since the '20's. He is survived by his widow, the former Margaret Hoberly, and three married daughters, Emily May, Dorothy and Kay.

John Hyer Bowles '08

John Hyer Bowles '08, died at the family residence at Lake Spring, Missouri, June 14, 1963, age 79 years. A member of a pioneer family of the area, he received his B. S. degree from MSM in 1908 in Mining Engineering. In 1921, he was awarded his M. S. degree and received his professional degree, Mining Engineer, the same year. He worked for the Palmer Corporation of Chicago, Illinois for nearly 30 years. Except for traveling in connection with his work he lived his adult life at Lake Spring. He was a veteran of World War I. John took an active interest in his alma mater. As a student he had the unusual distinction of missing the first St. Pat's celebration at MSM. While he was a delegate to the Columbia campus to observe a St. Pat's celebration to inaugurate one at Rolla, the MSM students held one in Rolla. In 1959, the Blanche and John H. Bowles Scholarship Fund was established at MSM. He is survived by his widow, Blanche Partin Bowles; a son, Joseph Edward, of the home, and a daughter, Ruth Bowles Bercaw, of Cleveland, Ohio.

Alumni Personals

1916

Dr. J. Charles Miller retired as Chief, Branch of Mineral Classification, U. S. Geological Survey on March 1, 1963. He was given an award for distinguished service on January 18, 1962. Dr. Miller has a temporary appointment for one year after which he expects to travel for a few months before return-

MSM ALUMNI PERSONALS

ing to the Los Angeles, California area and his grandchildren.

1917

C. E. Muehlberg retired April 1. He was a sales engineer with American Meter Co. His address is 374 Park Street, Upper Montclair, New Jersey.

Harold E. Spickard is a consulting engineer in Mining, C.E. and P.E. with residence at 1408 Georgia, N.E., Albuquerque, New Mexico. He was with the Corps of Engineers on active military duty and as a civilian from 1935 to 1957 and from 1946 to 1957 he was chief, real estate division. Since 1957 he has had his own consulting service. In 1955 he retired from the service as a Colonel AUS.

1925

M. L. Atkinson has retired after 37 years with Phillips Petroleum Company. His last assignment was manager of exploration in Algiers. His present address is 2933 Huntleigh Drive, Oklahoma City, Oklahoma.

1926

Ray E. Kollar, formerly with the Gray Tool Co., Houston, Texas, retired December 31, 1962, and has moved to the Pacific Northwest and is now living at 2705 S.E. River Road, Portland 22, Oregon.

1933

Dr. E. R. Mertz has joined North American Aviation Space and Information Systems division, in Downey, California, as Chief, Mechanics and Materials Section, Structural Sciences. During the past 30 years Dr. Mertz's career has been divided between industry and the university campus. After receiving his B. S. degree in Metallurgy at MSM, he went with Jones & Laughlin. In 1936, he taught in the mechanical engineering department at Texas A & M and worked toward his M. S. degree. After receiving his M. S. in 1939, he became assistant professor at Bradley university for a year and then went to Stanford U. for further graduate study. He returned to industry again as chief metallurgist at U. S. Spring and Bumper Co. and then joined Bendix Aviation in the same position. He returned to the university of Southern California in 1945 as associate professor and in 1953 received his Ph.D. and served as Fulbright professor at the University of Adelaide in Australia 1953-54. In the past eight years he worked on materials research

and development at Aerojet-General and on the Titan I at Martin Marietta's Aerospace Division.

M. J. Klinger who has been with Busch Sulzer Diesel Engine Company, St. Louis, Mo., a subsidiary of Norberg Manufacturing Co., Milwaukee, Wisconsin, is being transferred to Milwaukee due to the discontinuance of the operation of Busch-Sulzer company May 1. The company was a pioneer in the development of the diesel engine and acquired the first American rights to the production of the engine from Rudolph Diesel of German. Adolphus Busch, president of Anheuser-Busch, acquired these rights and the first diesel engine built by the company was installed in the brewery.

1936

Robert T. Chapman is with the Parsons Corporation, 617 West Seventh Street, Los Angeles 17, California. Presently he is on a special project for them in Jordan and his mailing address is P. O. Box 2085, Amman, Jordan.

Felix Richard Schlenvoigt was on the campus in June. This was his first visit since his graduation. His wife and children accompanied him. One son is in a military school in San Marcos, Texas. Felix is with the American Smelting and Refining Company, in Mexico.

1937

Grant W. Schaumberg, 275 North 7th East, American Fork, Utah, Works Industrial Engineer, Columbia-Geneva Steel Division, U. S. Steel Corporation, has a daughter who is a junior at Wellesley College, Wellesley, Mass., and a son, Grant, Jr. who will enter Harvard this September as a National Merit Scholar.

1941

Karl E. Krill has accepted a new position as Assistant to the President, University of Wisconsin, effective July 1, 1963. He formerly was Associate to Vice President (Research), Ohio State University, Columbus. The Krills have three children, two girls, 8 and 14 years, and a boy, age 8.

Colonel Andreas A. Andreae retired from the U. S. A. F., May 31, 1963, after 22 years of service. He is now general manager of the Portsmouth Motor Mart, Tempest, Pontiac and Cadillac agency, Portsmouth, New Hampshire. His new duties consist of supervising sales, maintenance, office

staff and a heavy equipment maintenance facility. He welcomes all MSM visitors to the New England area. His residence address is Beach Hill Road, New Castle, New Hampshire.

1944

Robert S. Westwater is president of Atlantic Bearing Corporation, 137 Washington St., Somerville, Mass. His residence is at 63 Oxford St., Winchester, Mass.

1947

Chaplain James W. Ranes was recently promoted to Captain. He is stationed in Japan with a U. S. Army Garrison. Chaplain Ranes entered the Army in May 1961, and was last stationed at Ft. Belvoir, Virginia, and arrived overseas in November 1962. He received his B. S. degree in Electrical Engineering at MSM. He received his B. S. degree in Electrical Engineering at MSM. His wife, Jean, is with him in Japan.

1948

M. A. Hagan is with North American Aviation, Inc., International Airport, Los Angeles, California, as principal engineer. He advises that MSM is now represented by 6 alumni in the R. & D. Division of NAA. The Hagans celebrated their 10th Wedding Anniversary. Their two children are Melorie, age 7 and Kent 5. Their address is 5515 Eau Claire Drive., Palor Verdes Peninsula, California.



Dennis L. McColgin

Dennis L. McColgin has been named general agent in Houston, Texas, for Union Barge Line Corporation, of Pittsburgh, Pa. Prior to his new appointment, he was UBL's traffic representative in that area. Mr. McColgin, who will be responsible for all sales and service activity throughout the southwest, will be in charge of the Houston office. McColgin, a mechanical engineering graduate began his employment with UBL in 1958. The McColgins with their four children have lived in Houston since 1950. They reside at 12935 Memorial Drive, Houston 24.

Carroll L. Ledbetter has been appointed district engineer in the St. Francois District, Union Electric Company. A new employee, Ledbetter was employed as an electrical engineer at St. Joseph Lead Company for 15 years before joining Union Electric. Ledbetter, his wife and three children live in Flat River, Missouri.

William H. Presley, Jr. has been transferred by Vickers, Inc., from Tulsa, Oklahoma, to their plant in Jackson, Mississippi. His address there is 5406 Meadow Oaks Park Drive.

1949

Earl E. Hoehn is a sales engineer in water treatment engineering. His business address is 10 South Brentwood, Clayton, Mo. There are six children in the Hoehn family. Earl says he is happy — poor — but still happy.

John F. Schmitz is with the Space and Information Systems Division, North American Aviation, Inc., as a senior research engineer. He resides at 2118 West Broadway, Anaheim, California.

James D. Blankenship has been promoted product engineer, assistant to the Manager of Product Engineering, International Business Machines, Endicott, N. Y. His address is 3632 Lynedale Drive, Johnson City, N. Y.

1950

Thomas W. White, Jr. has joined the William G. Krummrich Plant, of Monsanto Chemical Company's Organic Chemical Division, after serving with Lago Oil & Transport Co., Aruba Netherlands Antilles.

John S. Absalom, who is with the American Steel Foundries, was transferred in January to the Granite City Works from the East Chicago, Ind. Plant. His position at Granite City is Assistant to Works Manager. Their

residence address is 3275 Westchester.

Irving Klaus is vice-president of Ceramco, Inc. He has just completed four years in his own business and business is good. The company sells dental porcelain all over the world. His business address is 34-35 56th St., Woodside 77, N. Y.

Oliver A. Jorcke is a sales engineer—machine tools for the Colcord Wright Machinery and Supply Co., St. Louis, Mo. The Jorckes are moving into their new home July 1st. Their family score remains the same, his wife, Dot; three boys and one girl.

Robert L. Choate has accepted a new position with Hughes Aircraft Co., Culver City, California, as staff engineer in the analysis department, aeronautical systems division. The effective date is July 1, 1963, and his address will be Florence and Teale Streets, Culver City.

1951

Erv Dunn, Project Manager, Holmes and Narver, Inc., engineering and construction, spent the last six months in South Vietnam on a construction job. The Duns have added two girls to their family since 1961. Their residence address is 559 East Hazel St., Inglewood, California.

Antonio P. Ballester, Jr. has opened an office with a partner and Ballester and Spector are consultants and engineers in the field of Civil engineering. Their location is 1008 Towne Building, 1321 Arch Street, Philadelphia, Pa.

Donald J. Dowling, Jr. is quality control superintendent of the C and S Division of Buckeye Cellulose Corp. Donald and his wife, Kathleen, have four daughters, Margaret, 9; Sally, 8; Ann, 6; and Tess, 4. Their Memphis, Tennessee address is 5169 Rich Road.

1952

William A. Paar has been appointed a senior engineer, manager of Electronic Development, in Missile Guidance Engineering at IBM's Space Guidance Center in Owego, New York. Mr. Parr joined IBM at Owego on August 1, 1956 as an associate engineer in computer design on the B-70 program. In September 1958, he was named staff engineer, a project engineer in 1959 and development engineer in December 1961. He is a member of the following honorary societies, Tau Beta Pi, Eta Kappa Nu, Phi Kappa Phi and Sigma Xi. He lives on Gaskill Road, Owego, N. Y.

Joe W. Grant is utilization engineer with the City Utilities of Springfield, Missouri.

1953

Kenneth G. Heimbaugh is president of MoVal Contractors, Inc. with offices in the Franklin County Bank Bldg., Washington, Mo. The MoVal Contractors have the contract for the remodeling of Parker Hall on the MSM campus.

1954

Captain Joe E. Gray has completed a tour of duty in Iran and has been assigned to attend the Engineer Officer's Career Course at Ft. Belvoir, Virginia. His address will be Engineer Officer's Career Course, Student Officers Detachment, USAECR, Ft. Belvoir, Va.

James A. Gerard completed his Master's Degree in Business Administration at Northwestern University, Evanston, Illinois, in June. He is now in a short training program to prepare for a position as assistant district sales manager, Union Special Equipment Company, manufacturers of industrial sewing machines. His residence address is 1916 South Prospect, Park Ridge, Illinois.

Richard M. Humphries, a civil engineering graduate, has joined the W. G. Krummrich Plant, of Monsanto Chemical Company's Organic Chemicals Division, Monsanto, Illinois. He had been with the Illinois Power Company, Decatur, Illinois.

Jerry R. Custead has been named "Young Engineer of the Month" by the Western Chapter, Missouri Society of Professional Engineers. Jerry is with the Kansas City Power and Light Company and active in civic and community activities. The Custeads have two children, a boy 6 years and a girl 2 years old, and live at 1223 West 25th Street, Independence, Mo.

1955

Neal Senter of Quality Control, Western Printing and Lithographing Company, Cambridge, Maryland, has been elected secretary-treasurer of The Foreman's Club. His Cambridge address is 502 Travers.

Donald Gessley has been transferred by the American Telephone and Telegraph Co., to Wheaton, Illinois, and resides at 403 North President, Apt. 8A. He formerly was assigned at Independence, Mo.

1957

Robert G. Fuller has been accepted to attend NATO advanced summer session in Greece, during August 1963, on semiconductors. Bob is a graduate student in the Department of Physics, University of Illinois.

Dr. James D. Carl has accepted an appointment as an assistant professor of Geology at Illinois State Normal University, Normal, Illinois, beginning September 1963. He has been teaching at Central State Missouri College, Warrensburg for the past two years.

Carlton C. Summers has joined the Spruance Research and development Laboratory of the du Pont Company's Film Department, Richmond, Virginia. He previously worked in the technical section of the department's film plant at the same location.

A. E. Segelhorst is now senior Representative of the Hughes Aircraft Company at Bitburg Air Base, Germany. His address is 525th FIS, A. P. O. 132, New York, N. Y.

Waymon L. Johnston is with the Lane-Wells Company, Wichita Falls, Texas, as a field engineer. Waymon has his M. S. degree in Industrial Engineering. The Johnstons have a seven months old son and their address is 4514 Lakeview, Wichita Falls.

Mr. and Mrs. Jimmy E. Almond '58, announce the birth of Angela Kathryn, born on brother Christopher "Chris" Lynn's second birthday, November 9, 1962. They reside at 3036 Northaven Road, Dallas 24, Texas. Jimmy is an electrical engineer with Communications Engineering Co., Inc.

D. H. "Dave" Wenthe has been named Engine Division field representative, Caterpillar Tractor Company. In his new capacity Wenthe will assist Caterpillar dealers in Yuma, Arizona, Southern California and Honolulu. After graduating in Civil Engineering at MSM he served with the Corps of Engineers from 1957-59. Returning to Caterpillar in 1959, he worked as a Sales Development Engineer 1960-62, and as Engine Division sales engineer since 1962. The Wenthes have two daughters, Anne, 3; and Susan, 1. They will reside in Santa Ana, California.

Lloyd C. Laciny, California, a mechanical engineering graduate, became affiliated with Monsanto Chemical Company's Central Research Department, St. Louis, Missouri. Lloyd has

been with North American Aviation, Downey, California.

1958

Lymperios Yannopoulos received his Ph. D. in Chemistry, in June '63, from the Illinois Institute of Technology and at present is on a Post Doctoral appointment as resident research associate, Argonne National Laboratories, Argonne, Illinois, in their chemical engineering division. He is living at 5725 Belmont Road, Downers Grove, Ill.

Kenneth R. Schultz is now an engineer with Los Alamos Scientific Laboratory and his new address is 2506 C 46th Street, Los Alamos, New Mexico.

Army Reserve 1st Lt. Robert A. Gastaldi completed two weeks of active duty training as a student in the officer career course at the Engineers School, Ft. Belvoir, Va. Approximately 250 officers from the First U. S. Army Area attended the course. Lt. Gastaldi lives

at Upper Saddle River, New Jersey.

Walter B. Hatfield has completed his work for a Ph. D. degree in Physics at Stanford University and is employed as a MTS at the Bell Telephone Laboratories, Murray Hill, New Jersey. His mailing address is 969 Valley Road, Plainfield P. O., Watchung, New Jersey.

Gerald C. Armstrong has joined the materials and equipment group of Monsanto Chemical Company's engineering section, St. Louis, Missouri, after serving with the Bristol Company, St. Louis, Mo.

Robert C. Minton has been transferred by his employer the Shell Oil Company from Oklahoma City, Okla., to Billings, Montana. His new address is 2721 13th St., West, Billings.

1959

Donald W. Agers has been promoted by General Mills' Chemical Division to a newly created position of Product Manager, Mining Industry. In his new

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If your address has changed, complete and tear out this slip and mail it immediately to MSM Alumni Association, Rolla, Mo. Thanks.

Name

My new address is

My Company or Business Is

And My Title Is

Here's Some News for the MSM ALUMNUS:

assignment Agers will coordinate sales, development, research and technical service activities associated with the use of Chemical Division products in mining operations. He will also continue to assist the division's Commercial Development group in its liquid ion exchange program, a program he has been associated with since he joined General Mills in March 1960.

Agers holds a degree in Metallurgical and Nuclear Engineering. He previously was employed by the Granite City Steel Company, Granite City, Illinois, as a chemical metallurgist.

Herbert L. Hurst, sales and service engineer in the Controls Div., Hagan Chemicals & Controls now has his headquarters in Farmington, New Mexico. His mailing address is P. O. Box 1938.

Anthony E. Hoffman received a National Science Foundation Summer Fellowship for 1963 and a NSF Cooperative Fellowship for the 1963-64 year. He is now a graduate assistant at the U. of Nebraska and he will continue his attendance there working toward a Ph. D. in mathematics. His Lincoln address is 2025 "F" Street.

1960

Delano A. Doss is employed by ARO, Inc., Arnold Air Force Station, Tennessee. Mr. and Mrs. R. W. Brewster '61, from Winston-Salem, North Carolina, visited the Doss' in their home at 313 Crestwood Drive, Tullahoma.

Stanley E. Hays is with Western Electric Company and his present assignment is installing and testing S. A. G. E. Warning devices along the northern border of the U. S., and is now

doing this in Canada. He expects to be at the Royal Canadian Air Force Station, Mont Apica, Quebec, until the end of September. From June 10 to July 5, he will take a GET course at Clarkson College, Potsdam, N. Y. His mailing address is 924 W. Wood, Decatur, Illinois.

Major Robert W. Patterson has a new assignment as resident engineer, Vandenberg Project Office, Vandenberg AFB, California. His mailing address is P. O. Box 1566.

Lawrence Boston has a new address: 2237 Kraft Place, New Orleans, La. He has been at the U. of Kentucky.

1961

Lt. Andrew P. Elias, Jr., Hq. Co. 307th Engr. Bn. (Abn. Div.), Ft. Bragg, North Carolina, recently had a technical article published in "The Military Engineer," entitled, "Rapid Repair of Runway Craters."

Dennis B. Redington, 41 West Rose Avenue, Webster Groves, Mo., is a chemical engineer at Monsanto Chemical Co. Dennis is married and Mrs. Redington is the former Judith Ann Simonsen. They have one daughter, Michele Therese, born August 8, 1962.

John F. Curtin who has been an instructor in the E. E. Department at MSM is returning to Australia. His address will be 6 Bradley Grove, Mitchell Park, South Australia.

Captain John B. Kincaid is the latest addition to the Sioux Army Depot military staff. He has been assigned as Assistant to the Director for services. He came to Sioux Army Depot, Sidney, Nebraska from Ft. Belvoir, Virginia where he attended the Engineers Officer

Career Course and the Post Engineers Management Course. Kincaid, his wife Barbara and two children, Robin, age 6, and Margaret Ann, age 4, reside on the depot in Quarters T-8.

Richard D. Kapfer is on duty with the U. S. Army stationed in Viet Nam. He expects to be released in October 1963.

Carlos J. Key is working for the Marcona Mining Company at San Juan Bay which is about 250 miles south of Lima, Peru. His mailing address is Marcona Mining Co., Casilla 1229, Lima, Peru, S. A.

1962

Harold D. Haertling has been transferred from McDonnell Aircraft to N. A. S., Miramar, California. Harold is an electronic field engineer with Westinghouse Electric. He is living at 1647 Grand Ave., Apt. 11, San Diego 7, California.

Thomas G. Gresham, Schlumberger Overseas S. A., P. O. Box 469, Benghazi, Libia, is on an assignment in the Libyan desert.

2/Lt. Henry P. Duvall graduated from the Engineers Officers Orientation Course at Ft. Belvoir, Va., March 8, 1963 and on May 10, 1963 he graduated from Army Airbourne School, Ft. Benning, Ga. After a months delay due to a badly sprained left ankle he has been at Ft. Campbell, Ky., since May 25th. It appears that he will spend the remainder of his two year tour of duty at his present assignment. His address is 511th Engr. Co. (PB. Pat was employed at Boeing Airplane Co., Seattle, Washington prior to his active duty tour.

1963

Joe Staley has accepted a position with the General Electric Company in St. Louis, Mo. The Staley family reside at 3028 Pasteur, Apt. D, Overland 14, Missouri.

Thomas Van Doren has accepted a position with Collins Radio at Cedar Rapids, Iowa. He is working on the VHF Recovery Beacon for the Apollo Space Craft. The Van Dorens' address is 1422 3rd Avenue, S. E., Apt. 4, Cedar Rapids.

Daniel R. Middleton, a chemical engineering graduate, accepted a position with the Monsanto Chemical Company at the William G. Krummrich Plant, Monsanto, Illinois.

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